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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/487,359	01/19/2000	Dean A. Schaefer	1001.1387101	3074
7	590 03/18/2002			
Robert E Atkinson Crompton Seager & Tufte LLC 331 Second Avenue South Suite 895			EXAMINER	
			GHAFOORIAN, ROZ	
Minneapolis, N	иN 55401-2246		ART UNIT PAPER NUMB	
			3763	

DATE MAILED: 03/18/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)

		T a 11 41 51		Applicant(s)				
•		Application No		Applicant(s)				
Office Action Summary		09/487,359 SCHAEFER E		SCHAEFER ET AL.				
		Examiner		Art Unit				
		Roz Ghafooria		3763				
Period fo	• •							
THE N - Exten after S - If the - If NO - Failur - Any re	DRTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a repperiod for reply is specified above, the maximum statutory period e to reply within the set or extended period for reply will, by statutely received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, how by within the statutory my will apply and will expire a cause the application	vever, may a reply be ti inimum of thirty (30) da s SIX (6) MONTHS fror to become ABANDON	imely filed lys will be considered timely. In the mailing date of this communication. ED (35 U.S.C.§ 133).				
1)⊠								
2a) <u></u>	This action is FINAL . 2b)⊠ T	his action is non-	final.					
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4) Claim(s) 1-22 is/are pending in the application.								
4a) Of the above claim(s) is/are withdrawn from consideration.								
5) Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>1-21</u> is/are rejected.								
7) Claim(s) is/are objected to.								
8)⊠	Claim(s) 22 are subject to restriction and/or e	lection requireme	ent.					
Applicati	on Papers							
	The specification is objected to by the Examin							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a) ☐ All b) ☐ Some * c) ☐ None of:								
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
* :	 Copies of the certified copies of the pr application from the International E See the attached detailed Office action for a list 	Bureau (PCT Rul	e 17.2(a)).					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
,	a) The translation of the foreign language parts to the compact of the foreign language parts are the compact of the compact	orovisional applic	ation has been r	eceived.				
Attachmen								
1) Noti	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449) Paper No(s)	4) [5) [) 6) [Notice of Inform	nary (PTO-413) Paper No(s) al Patent Application (PTO-152)				

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DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121.

Group I, claim(s) 1-20, drawn to apparatus for Class 604 and subclass 524.

Group II, claim(s) 22, drawn to method of use for Class 264 and subclass 512.

The inventions are distinct, each from the other because of the following reasons:

- 1. Inventions Group I and Group II are related as apparatus and product made. The inventions in this relationship are distinct if either or both of the following can be shown: (1) that the apparatus as claimed is not an obvious apparatus for making the product and the apparatus can be used for making a different product or (2) that the product as claimed can be made by another and materially different apparatus (MPEP § 806.05(g)). In this case Group II discusses a method of making a shaft of an intervascular catheter, and it does not meet the limitation of the catheter disclosed in Group I. Group II could be referring to a method of making any long tube that may enter a vessel, and is not limited to the apparatus in Group I. Furthermore Group I and II fall under two separate art units and requires two separate expertise to exam the application appropriately.
- 2. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

During a telephone conversation with Mr. Robert E. Atkinson on 2/19/02 a provisional election was made without traverse to prosecute the invention of Group I,

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claim1-21. Affirmation of this election must be made by applicant in replying to this Office action. Claim 22 is withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Specification

3. The disclosure is objected to because of the following informalities: On page 5 line 14 the author states "monofilaments such as LCP" author has failed to explain what LCP stands for. On page 8, lines 5 and 10 the author refers to a braid reinforcement layer 50, yet there is no such number in the drawings.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 9-10 and 20-21 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. This claim refers to monofilaments comprising of LCP, but there has been no definition of what LCP represents.

Claim Rejections - 35 USC § 102

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-4, 6, 11, 13-15, and 17 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by U.S Patent No. 5057092 to Webster Jr.

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Webster discloses a braided catheter with low modulus warp. Referring to FIG 2 this apparatus contains an inner tube 22 and outer tube 30 and an interwoven helical reinforcement layer 24 with an axial member 28. The reinforcement layer is located between the outer tube 30 and the inner tube 22. The inner and outer surfaces are free of protrusions caused by axial member 28.

The inner and outer walls 22 and 30 are made of flexible plastic material such as polyurethane. (Col.2, line 33) The axial member is made out of material with a level of flexibility, in which it allows for movement in relation to inner and outer tube. The helical members 24 are made of material having a high modulus of elasticity. Preferred helical members are made of stainless steel wire, although, depending on the application material such as Kevlar thread and modified polyethylene material may be used. (Col.2, lines 55-65)

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 5,7-8, 16, and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S Patent No. 5057092 to Webster Jr. as applied to claim1 above, and further in view of U.S Patent No. 5891191 to Stinson.

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As mentioned above Webster discloses a braided catheter with low modulus warp. Webster, however, does not disclose the possibility of the helical members comprising of monofilaments. Stinson discloses a cobalt-chrominum-molybednum alloy stent and stent graft. Stinson's stent is made out of interwoven helical brides, which are made of monofilaments.

Therefore, it would have been obvious to one having ordinary skill in the art the time the invention was made to combine the two studies because according to Stinson monofilaments are highly resilient, and allow deformation under external stress, but elastically return to the nominal shape when free of he external stress. (Col. 8, lines 35-38) This quality is highly desirable because when placing an object in to the vessel one can be assured that this apparatus is resilient to proceed in the procedure yet is flexible enough not to treat through organs.

7. Claim 12 rejected under 35 U.S.C. 103(a) as being unpatentable over U.S Patent No. 5057092 to Webster Jr. as applied to claim 1above, and further in view of US Patent No. 5749891 to Ken et al.

As mentioned above Webster discloses a braided catheter with low modulus warp.

Webster, however, does not teach the helical material comprising of radiopaque

material. Ken discloses a multiple layered vaso-occlusive coils. Ken teaches the coils
that make up the stent may be made of radiolucent fibers or polymers.

Therefore, it would have been obvious to one having ordinary skill in the art the time the invention was made to combine the two studies because to place a helical member coated with radiopaque will allow the caregiver to follow the procedure with series of X-

Rays, it gives the physician eyes inside the patients lumens. With any procedure in medicine being able to see which part of the body you are advancing up on is half the battle, if you don't have visualization it will increase the risk of injure to the patient 10

fold.

Allowable Subject Matter

Claims 9, 10, 19, 20, 21 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roz Ghafoorian whose telephone number is 703-305-2336. The examiner can normally be reached on 8:30am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Casler can be reached on 703-308-3552.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0858.

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3700

RG March 11, 2002